

Title (en)  
CORE-SHELL-TYPE CERIUM OXIDE MICROPARTICLE, DISPERSION SOLUTION COMPRISING THE MICROPARTICLE, AND PROCESS FOR PRODUCTION OF THE MICROPARTICLE OR DISPERSION SOLUTION

Title (de)  
CEROXID-MIKROTEILCHEN VOM KERN-SCHALE-TYP, DISPERSIONSLÖSUNG DAMIT UND VERFAHREN ZUR HERSTELLUNG DES MIKROPARTIKELS ODER DER DISPERSIONSLÖSUNG

Title (fr)  
MICROPARTICULE D'OXYDE DE CÉRIUM DE TYPE NOYAU-COQUILLE, SOLUTION DE DISPERSION COMPRENANT LA MICROPARTICULE ET PROCÉDÉ DE PRODUCTION DE LA MICROPARTICULE OU DE LA SOLUTION DE DISPERSION

Publication  
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Application  
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Abstract (en)  
[origin: EP2072466A1] An object of the present invention is to provide a core-shell-type cerium oxide microparticle, a dispersion solution comprising the microparticle, and a process for production of the microparticle or dispersion solution, and to achieve the object, the present invention provides a core-shell-type cerium oxide microparticle which has an average particle diameter of 30 to 200 nm and a coefficient of variation therein no greater than 0.25, and in which the secondary particle forming the core portion is spherical in shape and a polymer is attached to its surface, a dispersion solution of this cerium oxide microparticle and a dry powder from the cerium oxide microparticle dispersion solution, and a process of producing a core-shell-type cerium oxide microparticle or a dispersion solution thereof, which comprises the steps of: mixing a cerium salt and a polymer in an organic solvent to obtain a mixture; and heating this mixture under reflux at a prescribed temperature to precipitate core-shell-type cerium oxide microparticles, wherein the cerium salt is cerium nitrate and the particle diameter of the microparticles is adjusted using the molecular weight of the polymer.

IPC 8 full level  
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